

FIG. 1

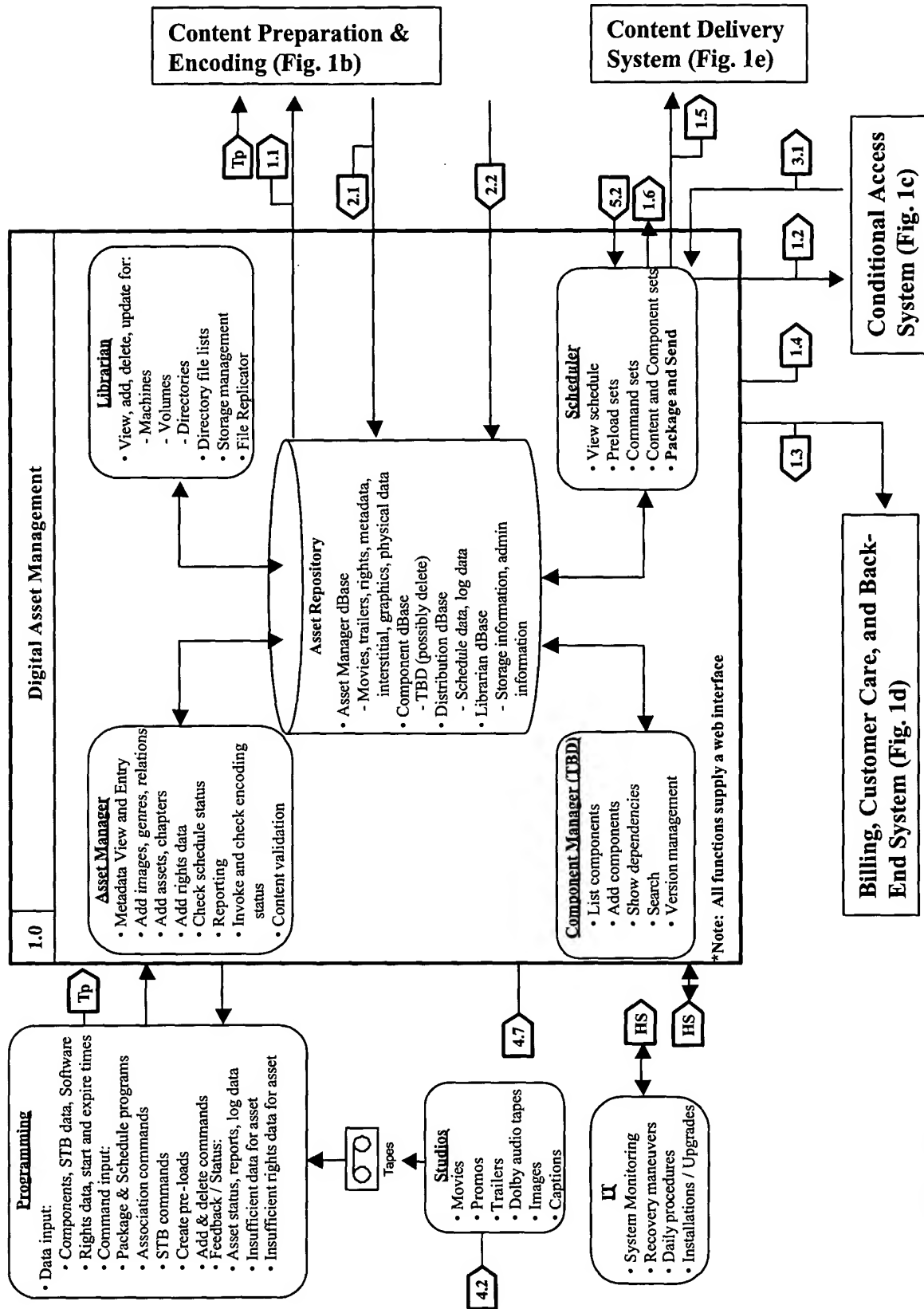


FIG. 1a

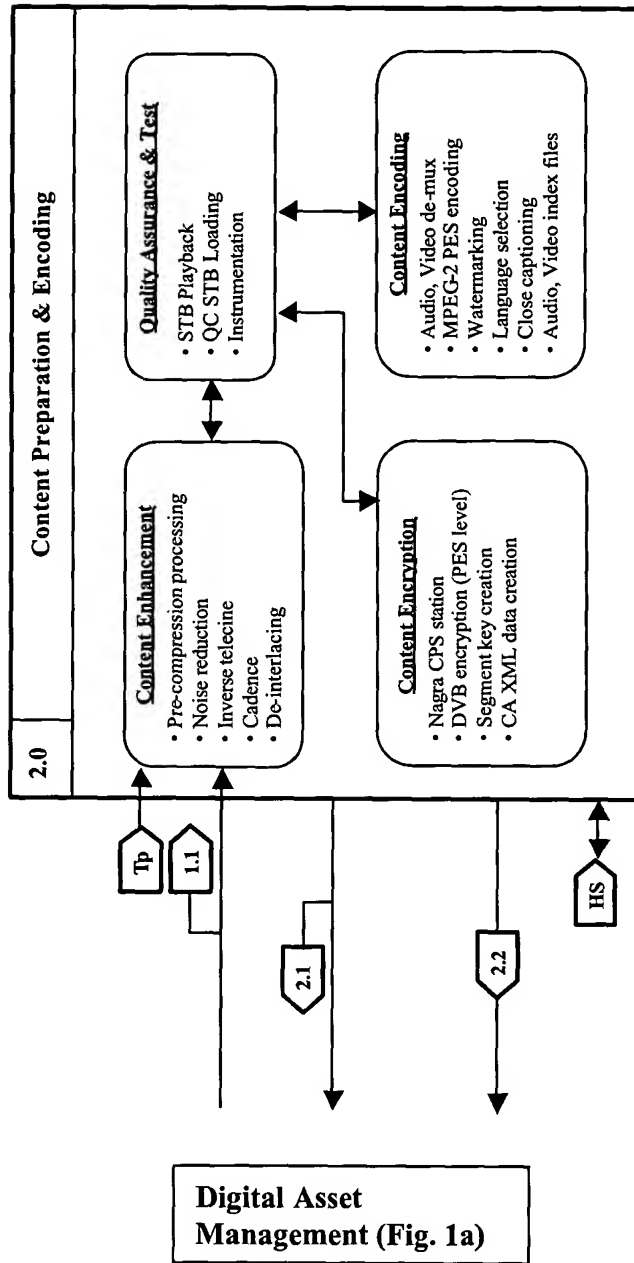
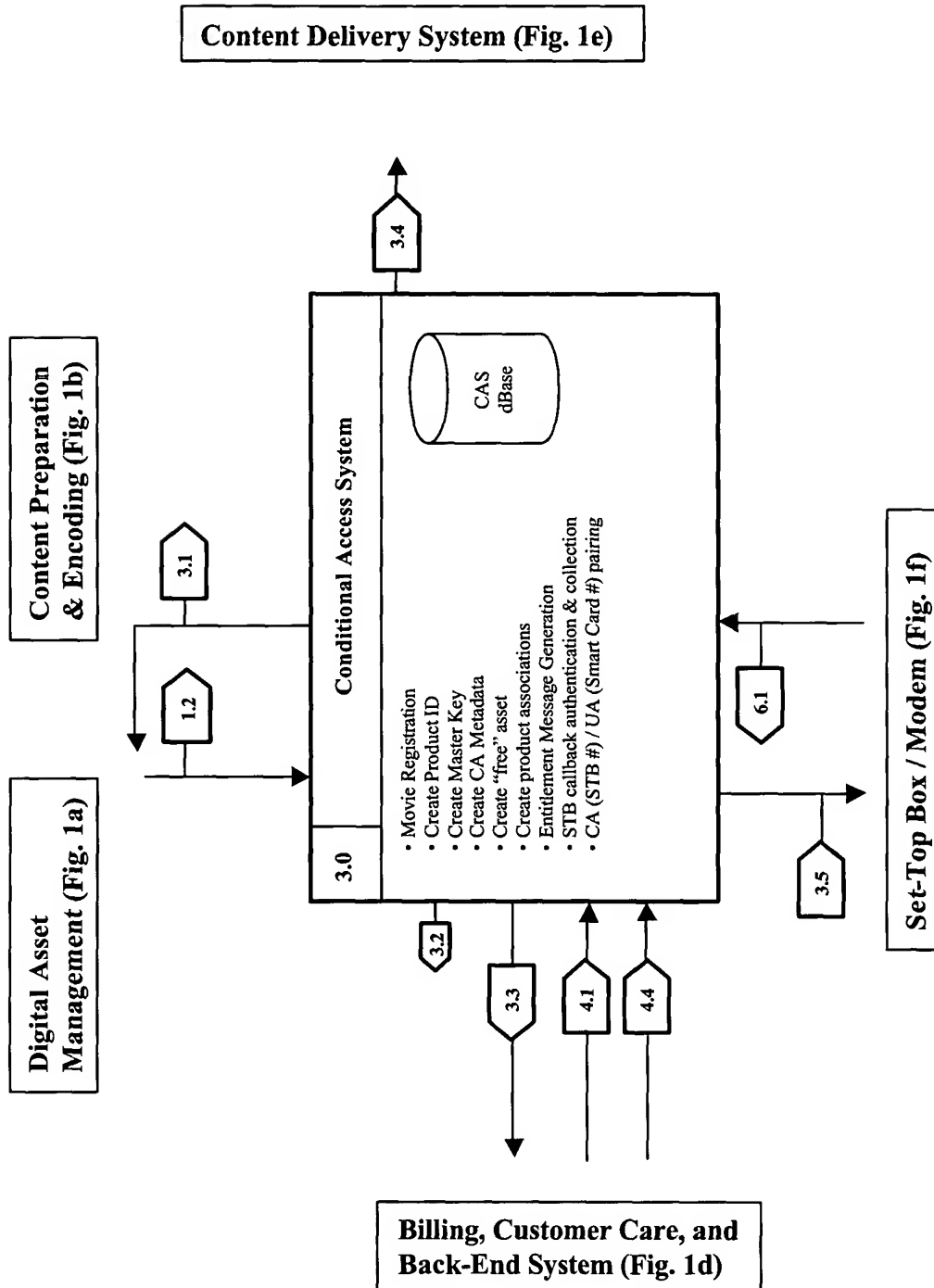
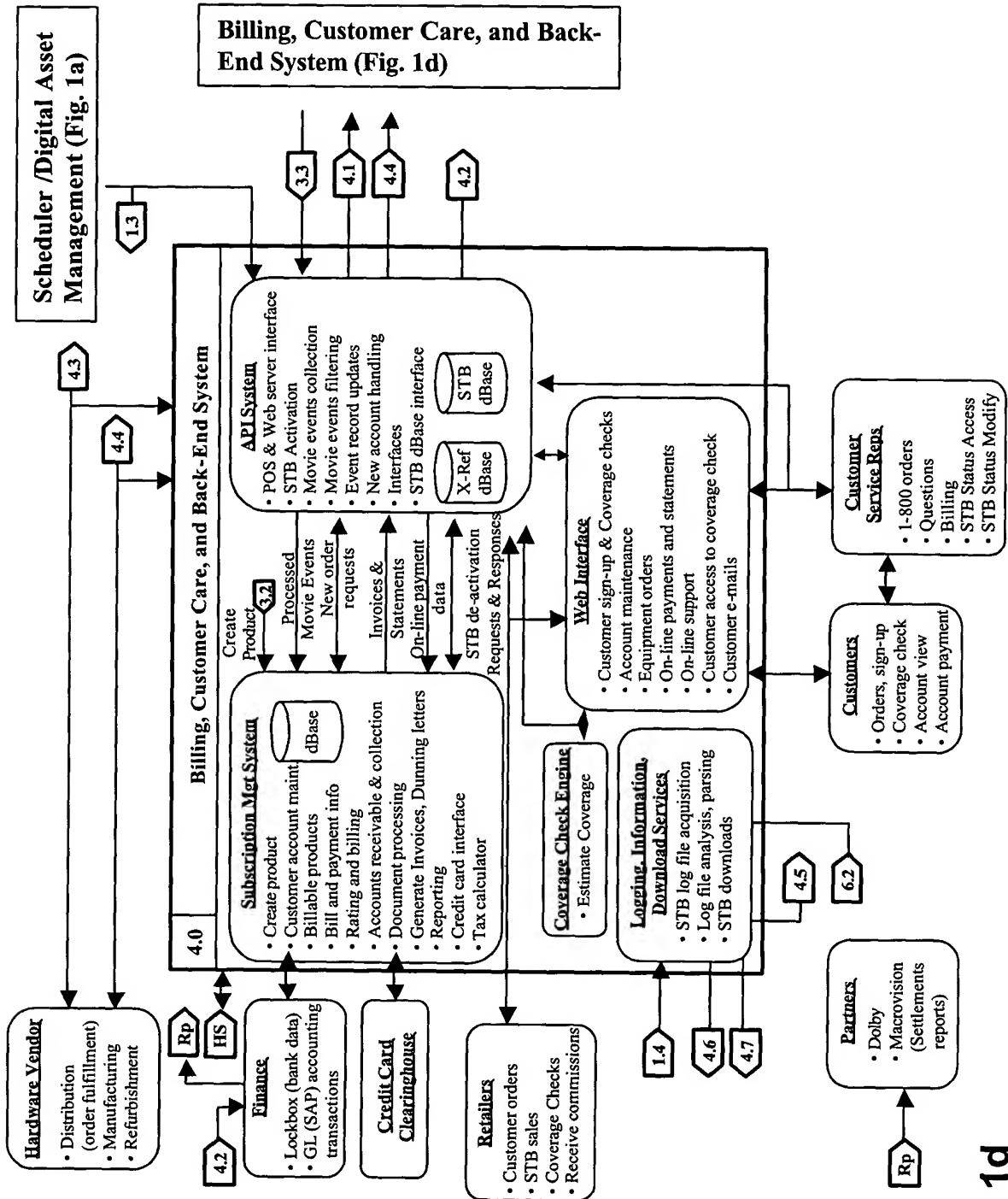


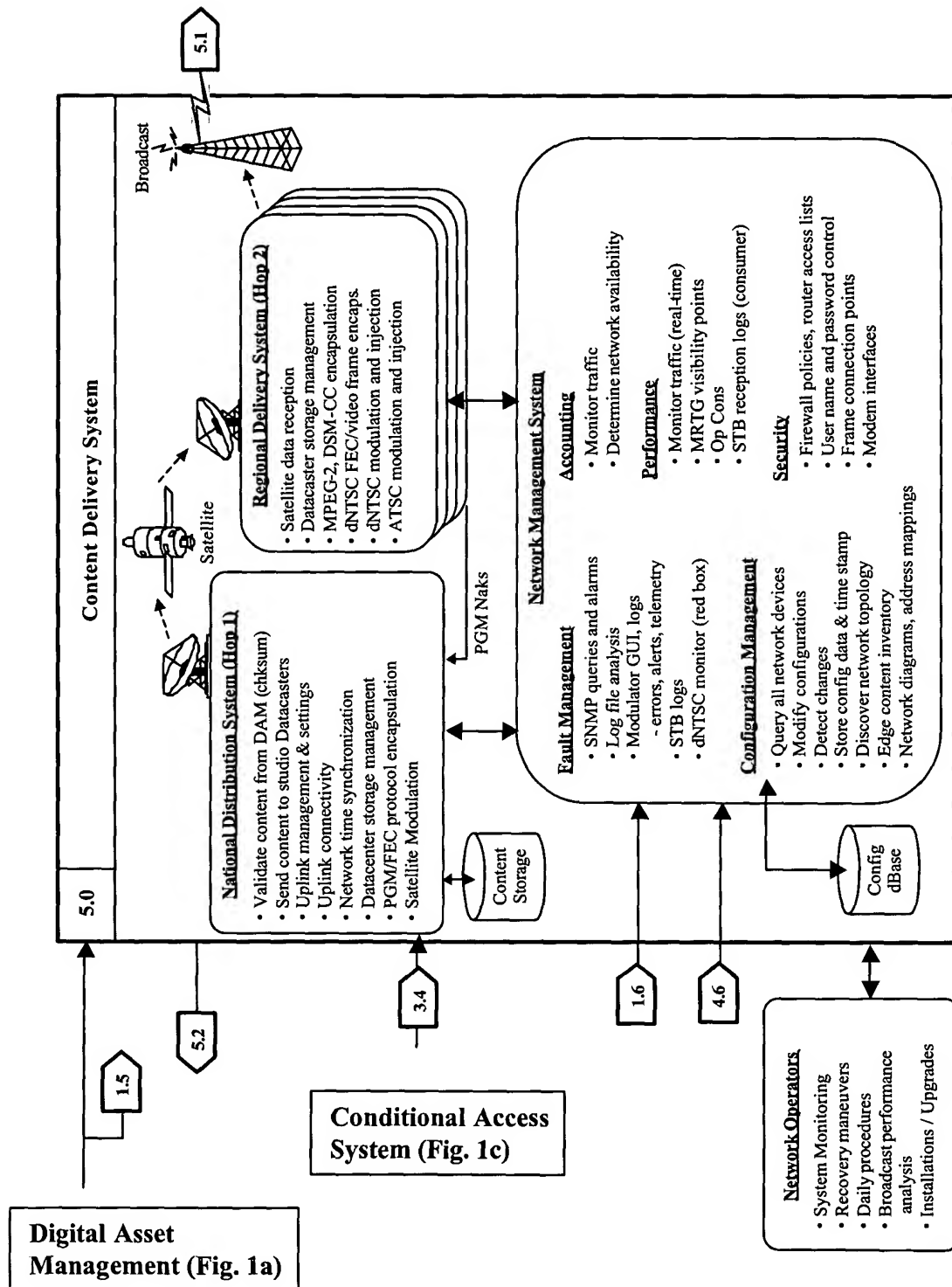
FIG. 1b



**FIG. 1c**



**FIG. 1d**



**FIG. 1e**

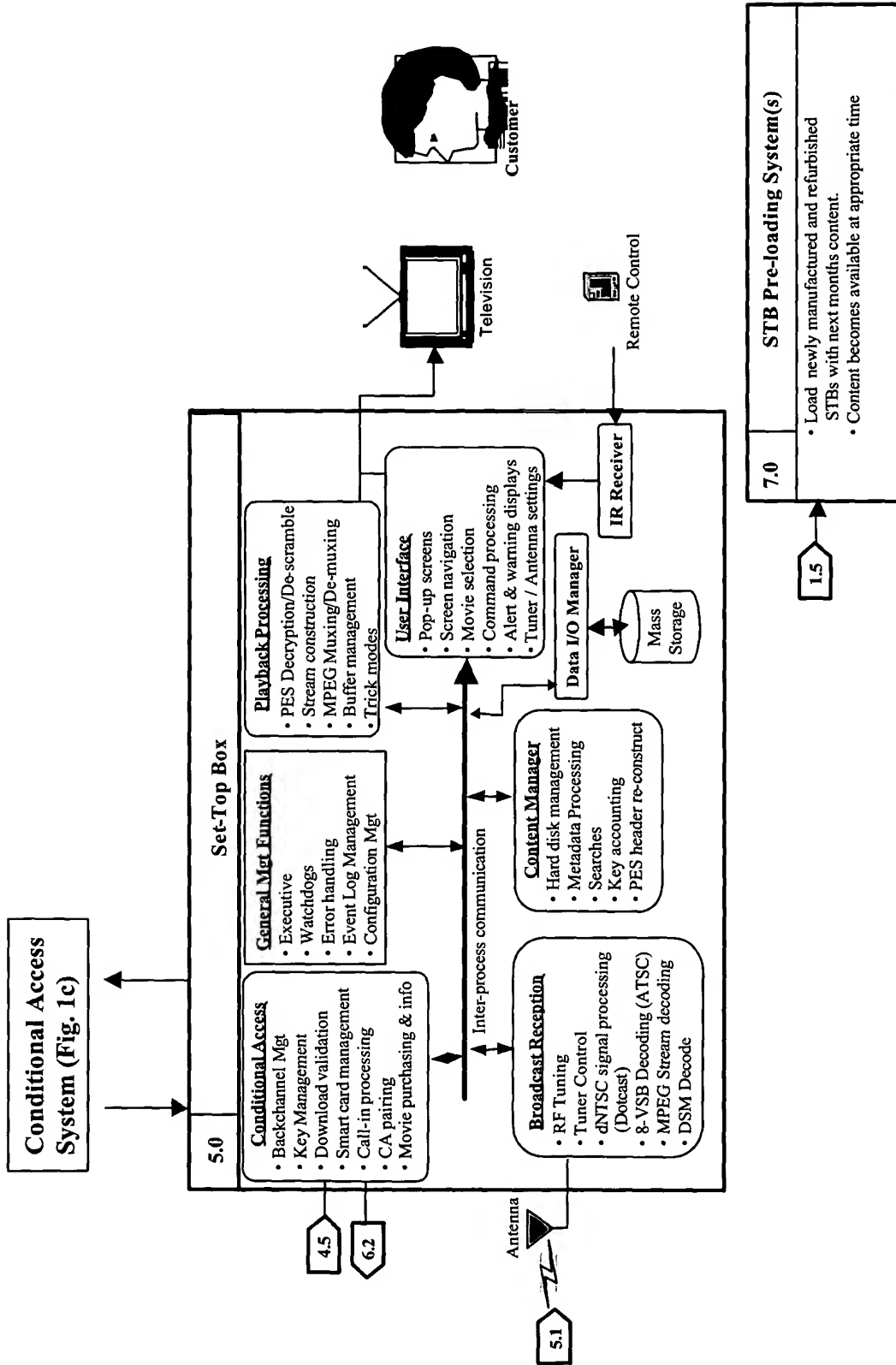


FIG. 1f

## Signal List

- |  |  |
|--|--|
| <p><b>1.1</b> Content, Interstitials, Graphics, Metadata, Rights data, Trailers, Chapter frame offsets<br/>Start encoding commands</p> <p><b>1.2</b> Create product command, rights data, update cmd, CA Metadata request, Associate request (ID + CA XML), Make "free" request, Encrypted segment keys, Create digital signature</p> <p><b>1.3</b> Movie Data Exports (MDI to SMS to populate cross-reference table) Movie ID, Price, Name, Genre, Rating, Studio ID, Macrovision indicator, Dolby indicator, Prod ID</p> <p><b>1.4</b> Active Movie Exports (to Info Server)</p> <p><b>1.5</b> Packaged Content<br/>Distribute Commands<br/>Schedule Commands<br/>Pre-load Content</p> <p><b>1.6</b> Schedule for week N (per pgm)<br/>Content for week N (per pgm)</p> <p><b>2.1</b> Encoded and Encrypted Assets, Index Files, CA XML File(s)</p> <p><b>2.2</b> Encoding Status / Progress, Asset Readiness</p> <p><b>TP</b> Tapes, JPEGs</p> <p><b>3.1</b> Product ID, status, CA Metadata, Digital signature(s) for content</p> <p><b>3.2</b> Create product</p> <p><b>3.3</b> Unfiltered STB events and logs, SMS messages, activate STB in dBase, Validate CA pairs, STB phone number</p> <p><b>3.4</b> CAS EMM Stream</p> <p><b>3.5</b> Master keys</p> | <p><b>4.1</b> New account information<br/>Activate customer account<br/>SMS GW cmds and messages<br/>Account de-activate command<br/>Account suspend command<br/>Account restore command<br/>Smart card commands (credit amounts &amp; thresholds)</p> <p><b>4.2</b> Settlements and Fee Reports</p> <p><b>4.3</b> Order requests and acknowledges<br/>Order number and data<br/>Shipping tracking number &amp; date</p> <p><b>4.4</b> CA numbers<br/>Availability dates<br/>Manufacturing numbers<br/>STB status and search</p> <p><b>4.5</b> File downloads to STB<br/>Software downloads<br/>Active Movie downloads<br/>STB specific downloads: channel, Time, timezone, chn offset</p> <p><b>4.6</b> STB reception statistics and performance</p> <p><b>4.7</b> Log data output to DAM</p> <p><b>5.1</b> Broadcast data:<br/>- Announcements<br/>- Content<br/>- EMM stream<br/>- STB commands</p> <p><b>5.2</b> Network Delivery Reports<br/>- Content on Datacasters<br/>- Content missing from Datacasters<br/>- Confirmed broadcasts out Datacasters<br/>- Number of carousels for content<br/>- Scheduled outages<br/>- Unscheduled outages</p> <p><b>6.1</b> Initial STB call-ins, activation Request, events, log data</p> <p><b>6.2</b> STB logging data</p> <p><b>HS</b> Health and status</p> <p><b>Rp</b> Settlements and Reports</p> |
|--|--|

**FIG. 19**



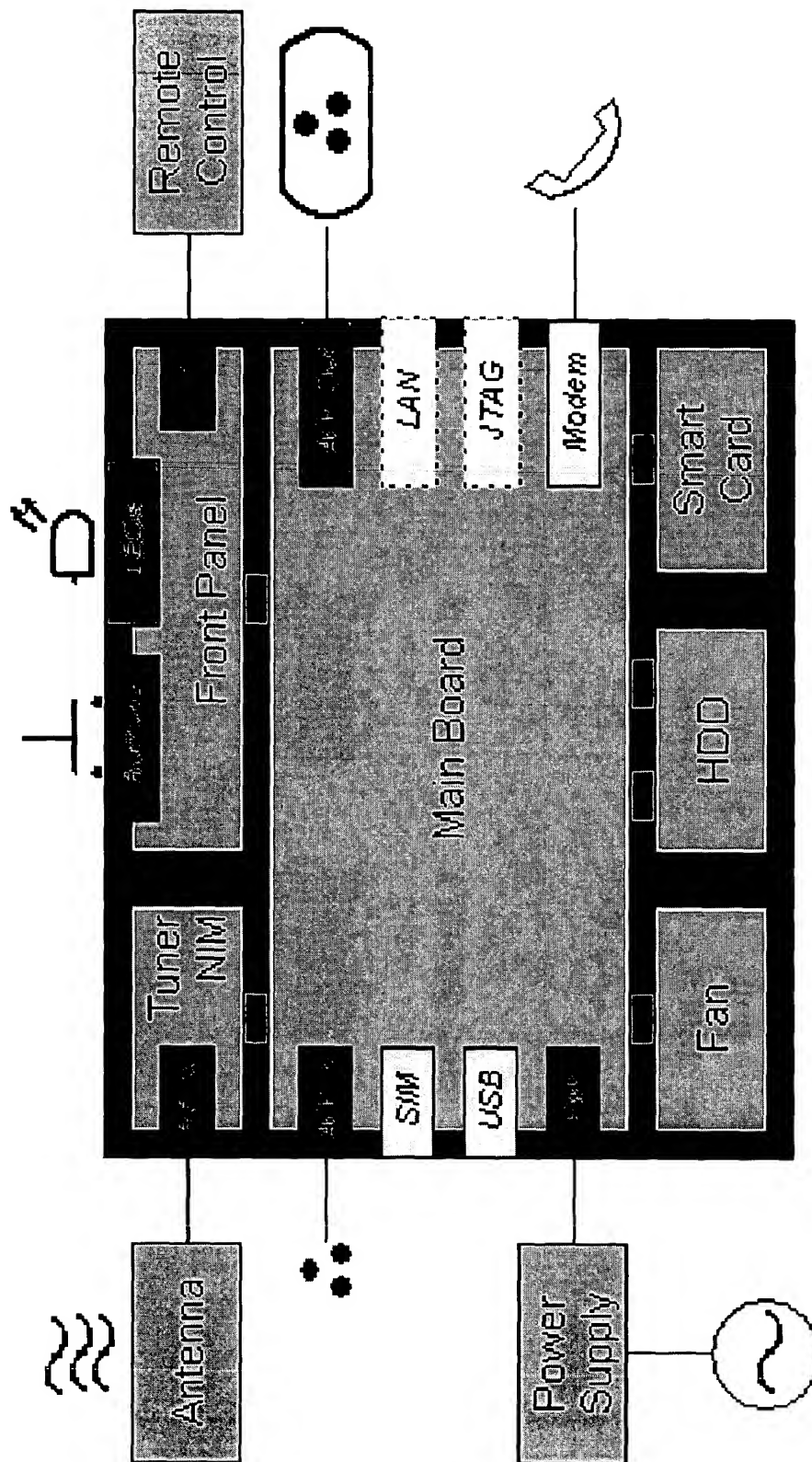


FIG. 2

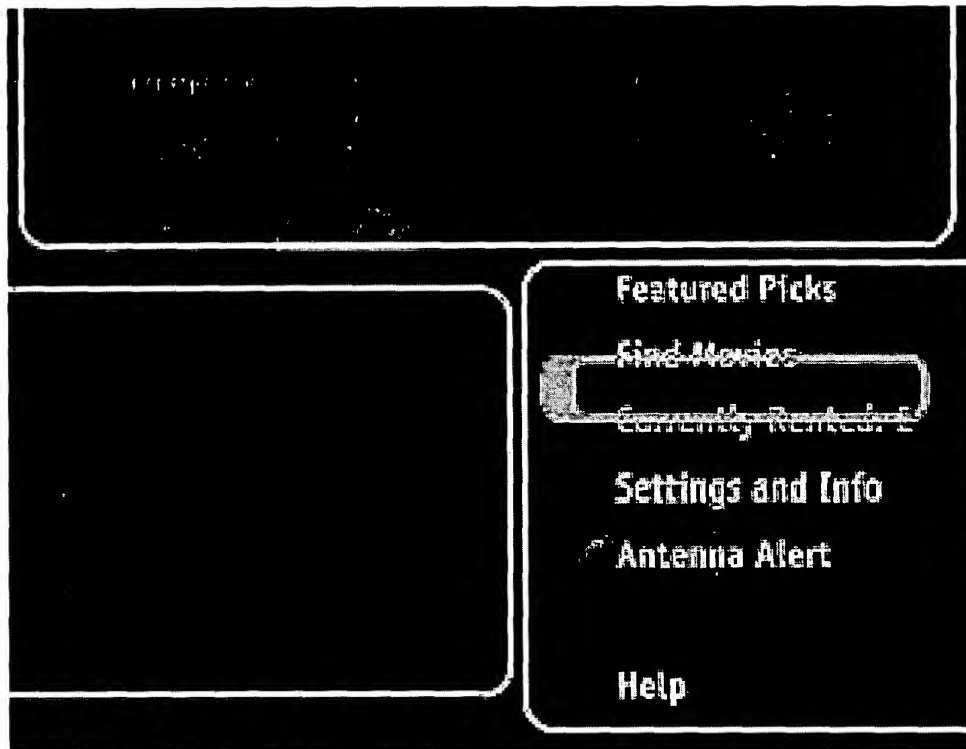


FIG. 3

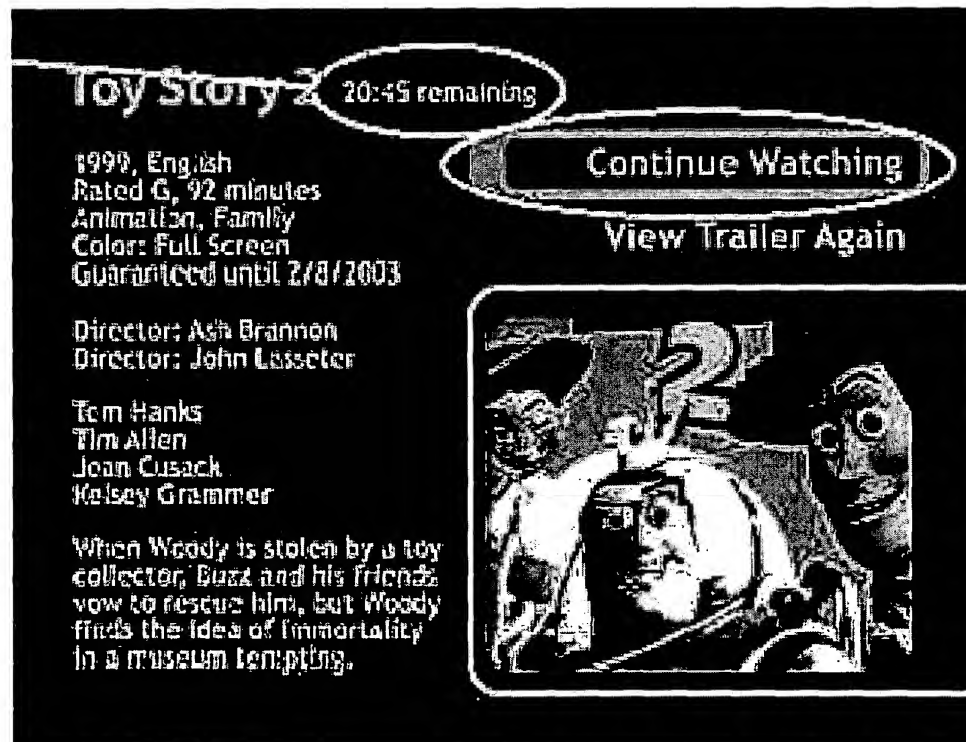


FIG. 4

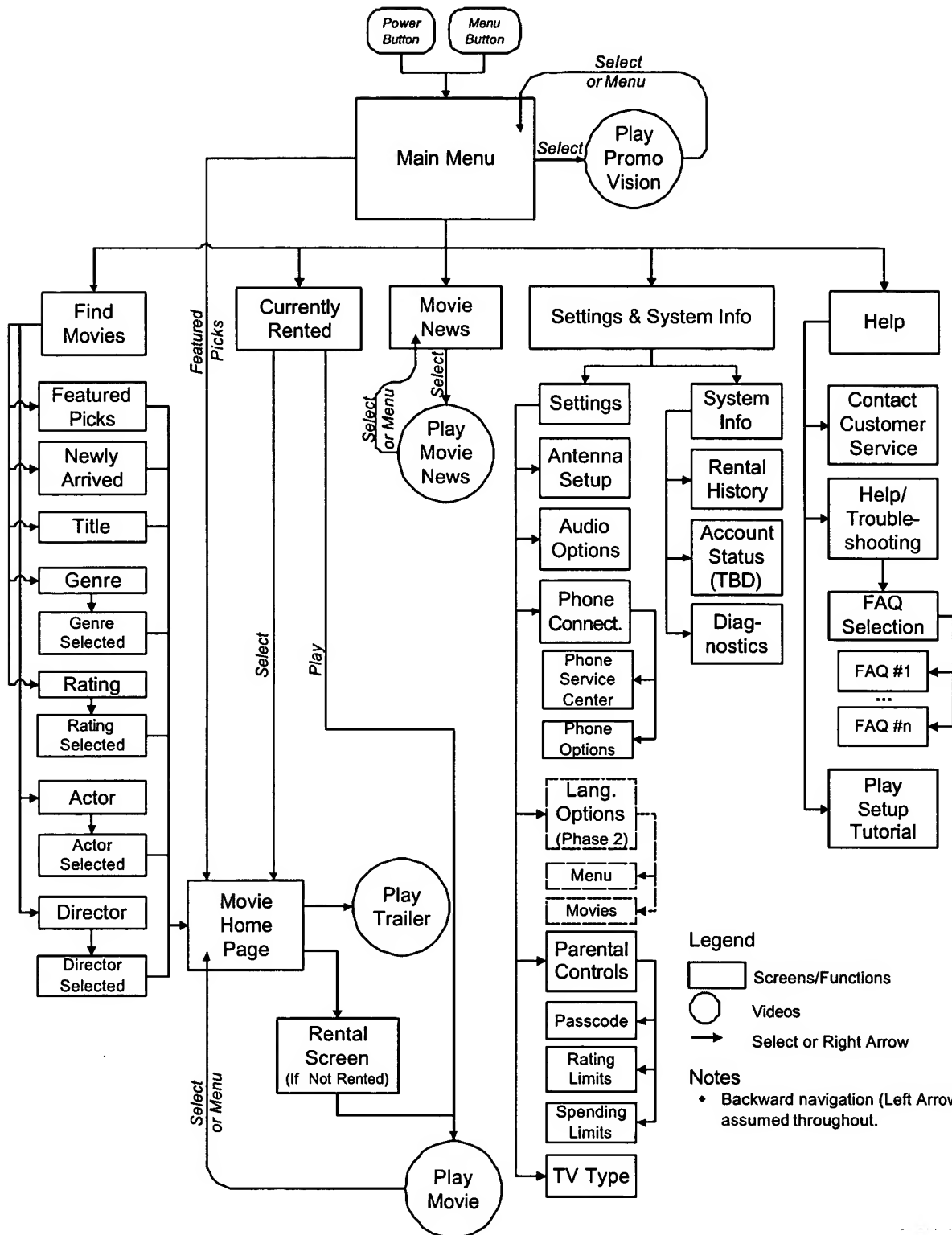


FIG. 5